

Filling a Syringe for Injection

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student determines the amount to be placed in the syringe. <ul style="list-style-type: none"> • Student reads veterinary orders to determine amount of medication – 3pts • Student verifies that he/she has the correct drug for the order – 3 pts 	6	
The student selects the proper-sized syringe. <ul style="list-style-type: none"> • Student chooses syringe size based on dosage amount (i.e. smaller syringe for smaller dosage)– 2 pts • Student applies label with veterinary orders to syringe – 2 pts • Student chooses needle size appropriate for patient, medication, and injection type – 2 pts • Student applies needle to syringe by twisting clockwise – 2 pts 	8	
The student inserts the syringe into the top of the bottle. <ul style="list-style-type: none"> • Student cleans top of bottle with alcohol – 2 pts • Student pulls plunger down to equal the volume of medication to be drawn – 1 pts • Student removes needle cap – 1 pts • Student inserts needle through rubber stopper – 2 pts 	6	
The student places the bottle upside down in one hand and holds securely. <ul style="list-style-type: none"> • Student depresses plunger to expel air into vial – 2 pts • Student securely holds bottle in one hand and syringe in the other hand – 2 pts • Student carefully inverts bottle – 2 pts 	6	
The student withdraws the proper volume. <ul style="list-style-type: none"> • Student ensures liquid is covering needle tip – 1pts • Student holds syringe at eye level – 1 pts • Student pulls plunger down so that the top of the black stopper is aligned to the proper amount - 2 pts • Student pulls plunger slightly farther to account for air bubbles – 2 pts 	6	
The student removes the syringe from the bottle. <ul style="list-style-type: none"> • Student maintains needle and syringe in upright position – 3 pts • Student removes needle from bottle – 3 pts 	6	
The student gently taps or snaps the edge of the syringe to remove any air bubbles, or slightly expel the air by pushing the end of the plunger. <ul style="list-style-type: none"> • Student continues to hold needle upright – 1 pts • Student gently flicks the syringe to move air bubbles to top – 1 pts • Student depresses plunger to expel air and excess medication from syringe – 2 pts • Student checks to ensure he/she has maintained proper dosage – 2 pts 	6	
The student places syringe in the sharps container. <ul style="list-style-type: none"> • Student carefully removes needle by twisting counter clockwise – 3 pts • Student puts used needle in sharps container – 3 pts 	6	
TOTAL POINTS	50	

Recommended Needle Sizes

	Subcutaneous (SQ)	Intramuscular (IM)	Intravenous (IV)
Dog & Cat	3/4" x 22 ga	1" x 22 ga	***
Horse	1" x 18 ga	1 1/2" x 18 ga	1 1/2" x 18 ga
Colt	3/4" x 20 ga	1" x 20 ga	1" x 20 ga
Cow	1" x 16 ga	1" x 16 ga	1 1/2" x 16 ga
Calf	3/4" x 16 ga	1" x 16 ga	1" x 18 ga
Goat	3/4" x 22 ga	1" x 18 ga	***
Sheep	3/4" x 18 ga	1" x 18 ga	1" x 18 ga
Hog	3/4" x 18 ga	1" x 18 ga	2" x 18 ga
Sow	1" x 18 ga	1" x 18 ga	4" x 18 ga
Pig	1/2" x 20 ga	1" x 18 ga	1" – 1 1/2" x 20 ga
Poultry	5/8" x 25 ga	3/4" x 22 ga	***